

# Central Federal Lands Highway Division

## Project Schedule and Resource Management

Version (Date): January 16, 2004

Activity ID: D1	Activity Title: Develop 15% Design
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Activity Definition: Develop and Distribute Conceptual Design/Alternatives Analysis.

Predecessor Activities (ID's) & Relationships (i.e.: FS, SS, or FF) & Time Lag:	Successor Activities (ID's) & Relationships (i.e.: FS, SS, or FF) & Time Lag:
1. Pred: G1 Rel: FF Lag: 20	1. Succ: D1PR Rel: FS Lag: 0
2. Pred: H1 Rel: FF Lag: 20	2. Succ: E2 Rel: FS Lag: 0
3. Pred: V1 Rel: FF Lag: 20	3. Succ: G2 Rel: FS Lag: 0
4. Pred: S1 Rel: FS Lag: 0	4. Succ: R2 Rel: FS Lag: 0
5. Pred: Rel: Lag:	5. Succ: S2 Rel: FS Lag: 60
6. Pred: Rel: Lag:	6. Succ: Rel: Lag:
7. Pred: Rel: Lag:	7. Succ: Rel: Lag:

### Required Activity Tasks:

#### **DESIGN/PLANS**

1. Develop and refine design concepts and alternatives.
2. Develop preliminary alignment, grade, earthwork design, construction limits, typical sections, and design standards criteria.
3. Coordinate preliminary design details and schedule with utilities, geotech, structures, environment, hydraulics, right-of-way, pavements, survey and cooperating agencies.
4. Preliminary highway design standards form
5. Incorporate preliminary recommendations from utilities, geotech, structures, environment, hydraulics, right-of-way, pavements, survey and cooperating agencies.
6. Assist environmental analysis. Determine the physical impacts that will result from the project.
7. Respond to interagency and public input/concerns.
8. Develop preliminary alignment of major intersections, approach roads and preliminary layout of parking areas.

9. Prepare preliminary title, typical section, plan and profile and cross section sheets.
10. Maintain project documentation
11. Calculate quantities for major items

**ESTIMATE**

12. Develop the preliminary cost estimate using major items & appropriate contingency.

**REVIEW**

13. Coordinate/schedule 15% field review of preliminary design package, if required.
14. Assemble, print and distribute 15% design (preliminary line & grade) package.

15. **For A/E projects:**

- Assist PM in writing scope of work & IGE as requested
- Assist PM in negotiations as requested.
- Attend progress meetings as requested
- Items 13 and 14 (above) only apply to outsourced A/E projects